

ABSTRACT

A catheter system comprising a guidewire, an endovascular catheter, and an aspiration catheter. The guidewire has an expandable occluder mounted on a distal end. The guidewire and the endovascular catheter are insertable into a lumen of the aspiration catheter. The aspiration catheter also includes infusion and aspiration lumen(s) and port(s). Methods of using the catheter system for treating a vascular lesion and removing embolic material during the procedure are also disclosed.